

General Technical Base Competency 5.1

Competency 5.1 Personnel shall demonstrate knowledge of the Occupational Safety and Health Act (OSHA) necessary to identify safe/unsafe work practices.

1. Supporting Knowledge and Skills

- a. Describe DOE's responsibilities with respect to OSHA including the following:
 - Hazard recognition and evaluation
 - Accident investigation
 - Hazard reduction/elimination
 - Job safety analysis
 - Accident/injury/illness prevention
 - Blood-Borne Pathogens
- b. Using references, discuss the purpose of 29 CFR 1910, Occupational Safety and Health Standards.
- c. Using references, discuss the purpose of 29 CFR 1960, Basic Program Elements for Federal Employee Occupational Safety and Health and Related Matters.
- d. Discuss the regulatory interfaces between OSHA and other regulatory agencies.
- e. Discuss workplace inspection techniques.
- f. Discuss the major components of the OSHA Hazard Communication Protocol.
- g. Using references, discuss the purpose of the following DOE Orders:
 - 3790.1B Federal Employee Occupational Safety and Health Program
 - 5480.1B Environmental, Safety, and Health Programs for DOE Operations
 - 5483.1A Occupational Safety and Health Program for DOE Contractor Employees at Government-Owned-Contractor-Operated (GOCO) Facilities

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2. Self-Study Activities (corresponding to the intent of the above competency)

Below are two web sites containing many of the references you may need.

Web Sites		
Organization	Site Location	Notes
Department of Energy	http://wastenot.inel.gov/cted/stdguido.html	DOE Standards, Guides, and Orders
OSHA	http://www.osha-slc.gov/	OSHA documents and search engine
U.S. House of Representatives	http://law.house.gov/cfr.htm	Searchable Code of Federal Regulations

Scan the following: 29 CFR 1910, "Occupational Safety and Health Standards;" 29 CFR 1960, "Federal Employee Occupational Safety and Health Program and Related Matters;" DOE Order 3790.1B, *Federal Employee Occupational Safety and Health Program*; DOE Order 5483.1A, *Occupational Safety and Health Program for DOE Contractor Employees at Government-Owned, Contractor-Operated (GOCO) Facilities*; and *Fundamentals of Industrial Hygiene*, 4th edition, pages 531-532 and 769-770.

EXERCISE 5.1-A Describe DOE's responsibilities with respect to the OSHA requirements listed in the chart below. Cite a reference for each responsibility.

OSHA Requirement	DOE Responsibility	Directives
Hazard recognition and evaluation		
Hazard reduction/elimination		
Accident investigation		
Job safety analysis		
Accident/injury/illness prevention		
Blood-Borne Pathogens		

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Review 29 CFR 1910.1, “Occupational Safety and Health Standards,” Purpose and Scope.

EXERCISE 5.1-B Using references, discuss the purpose of 29 CFR 1910, “Occupational Safety and Health Standards.”

Review 29 CFR 1960.1, “Basic Program Elements for Federal Employee Occupational Safety and Health Related Matters,” Purpose and Scope.

EXERCISE 5.1-C Using references, discuss the purpose of 29 CFR 1960, “Basic Program Elements for Federal Employee Occupational Safety and Health and Related Matters.”

EXERCISE 5.1-D Discuss the regulatory interfaces between OSHA and other regulatory agencies.

Review 29 CFR 1960.26, “Conduct of Inspections.”

EXERCISE 5.1-E Discuss workplace inspection techniques.

Review DOE Order 3790.1B, *Federal Employee Occupational Safety and Health Program*; DOE Order 5480.1B, *Environmental, Safety, and Health Programs for DOE Operations*; and DOE Order 5483.1A, *Occupational Safety and Health Program for DOE Contractor Employees at Government-Owned, Contractor-Operated (GOCO) Facilities*.

EXERCISE 5.1-F Complete the matrix below:

DOE Order	Purpose
3790.1B	
5480.1B	
5483.1A	

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3. Summary

DOE is required to follow OSHA Standards by DOE Orders 3790.1B and 5483.1A, as well as Executive Order 12196, “which establishes policies and responsibilities within Federal departments and agencies for implementation of the Occupational Safety and Health Act of 1970.” Accordingly, a knowledge of the DOE responsibilities, the purpose of the OSHA Code of Federal Regulations, 29 CFR 1910, and the regulatory interfaces between OSHA and DOE is needed.

4. Exercise Solutions

EXERCISE 5.1-A Describe DOE's responsibilities with respect to the OSHA requirements listed in the chart below. Cite a reference for each responsibility.

ANSWER 5.1-A

OSHA Requirement	DOE Responsibility	Directives
Hazard recognition and evaluation	Qualified safety and health inspectors conduct formal inspections at least annually of all areas and operations of each workplace. Periodic unannounced inspections are conducted.	DOE Order 3790.1B, Chapter 1.2.b
Hazard reduction/elimination	In imminent danger situations, the hazardous situation is abated immediately. Unsafe and unhealthful working conditions are promptly abated.	DOE Order 3790.1B, Chapter 1.2.b
Accident investigation	Accident investigations shall be conducted in accordance with DOE Order 5484.1, <i>Environmental Protection, Safety and Health Protection Information Reporting Requirements</i> .	DOE Order 5484.1
Job safety analysis	A Process (Job) Safety Analysis provides information which will assist employers and employees in making decisions for improving safety and reducing hazards. . . .	29 CFR 1910.119, Appendix C, 4

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OSHA Requirement	DOE Responsibility	Directives
Accident/injury/illness prevention	Supervisors shall be trained to recognize and eliminate occupational safety and health hazards in their work units.	DOE Order 3790.1B, Chapter V, 2.b.(2)
Blood-Borne Pathogens	Each employer having an employee(s) with occupational exposure as defined by paragraph (b) of this section shall have a written Exposure Control Plan designed to eliminate or minimize employee exposure.	29 CFR 1910.1030 (d)(2)

EXERCISE 5.1-B Using references, discuss the purpose of 29 CFR 1910, Occupational Safety and Health Standards.

ANSWER 5.1-B To establish standards with which industries are generally familiar, and on whose adoption interested and affected persons have already had an opportunity to express their views. They are: (1) national consensus standards on whose adoption affected persons have reached substantial agreement, or (2) federal standards already established by federal statutes or regulations.

EXERCISE 5.1-C Using references, discuss the purpose of 29 CFR 1960, "Basic Program Elements for Federal Employee Occupational Safety and Health and Related Matters."

ANSWER 5.1-C The Secretary of Energy is required to issue basic program elements with which the heads of agencies shall operate their safety and health programs in accordance.

EXERCISE 5.1-D Discuss the regulatory interfaces between OSHA and other regulatory agencies.

ANSWER 5.1-D The Secretary is required to perform various services for the agencies, including consultation, training, recordkeeping, inspections, and evaluations. Agencies are encouraged to seek assistance from the Secretary to comply with the basic program elements and operate effective occupational safety and health programs.

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EXERCISE 5.1-E Discuss workplace inspection techniques.

ANSWER 5.1-E Prior to commencement of the inspection, the Safety and Health Inspector shall be provided all relevant information including reports, records, and reports of unsafe working conditions. The Inspector shall determine in advance the actual work procedures and conditions to be inspected.

The head of the agency shall authorize safety and/or health inspectors to: enter without delay any environment where work is performed; inspect and investigate all pertinent conditions, structures, machines, and apparatus; and question privately any employee of the establishment.

EXERCISE 5.1-F Complete the matrix below:

ANSWER 5.1-F

DOE Order	Purpose
3790.1B	To set forth policy for the implementation and administration of the Federal Employee Occupational Safety and Health Program for the DOE.
5480.1B	Establishes the Environmental Protection, Safety, and Health Protection Program for DOE operations.
5483.1A	Establishes requirements and procedures to ensure that occupational safety and health standards prescribed provide occupational safety and health protection for DOE employees in GOCO facilities.